

**ELECTROMECHANICAL VALVE ACTUATOR FOR INTERNAL COMBUSTION ENGINES
AND INTERNAL COMBUSTION ENGINE EQUIPPED WITH SUCH AN ACTUATOR**

ABSTRACT

The present invention pertains to an electromechanical valve actuator (301) for internal combustion engines, equipped with a polarized electromagnet (300) exerting a magnetic action on a magnetic plate (302) subjected to a mechanical restoring action, which action can compensate the magnetic action and maintain the plate (302) in a distant position from the electromagnet. According to the present invention, the actuator comprises means to ensure that the displacements of the plate are controlled solely by this electromagnet and the mechanical restoring action such that the plate performs shuttle movements beginning from the distant position.